AP 203 as a Modular AP

What is It?



- The modular AP 203 will be a NWI product of the current AP 203 PWI effort
 - This effort is examining how to deal with all issues against the current 203 (AKA 10303-203:1994/Cor.2:1998)
 - This process will generate TCs, amendments and new editions as necessary
- There is a need for a new edition to:
 - Incorporate AP interoperability fixes
 - This will be done through incorporation of the PDM schema defined modules and current shape AICs or shape modules
 - Add CSG
 - Add Solid Model History

PDM modular breakdown



• Initial Unified PDM schema modules

- product identification
 - part identification
 - document identification (logical documents, not files)
- product version
 - part version
 - document version
- product definition
 - part definition
 - document definition
- file identification
 - · external reference

PDM schema modular breakdown



Initial Unified PDM schema modules

- part structure
 - assembly component relationships
 - next higher, promissory, specified, quantified
 - alternate, substitute, make from, and supplied parts
 - part version sequence and hierarchy
- part properties
 - cost, mass, descriptive properties (quality, recyclability)
- document structure
 - decomposition (assembly component) relationships
 - derivation, substitution, and supplied documents
 - document version sequence and hierarchy
- document and file properties
 - format, content, source, creation, size

PDM schema modular breakdown



Initial Unified PDM schema modules

- general organizational data
 - persons and organizations
 - dates and times
 - authorization
 - security classification
 - contract
- work/change management
 - request for engineering action (release, change)
 - recommended solution alternative(s) listed
 - order for engineering action (release, change)
 - in response to specific request(s)
 - selected solution alternative(s) identified

Modular 203 Contents



- product identification
- product version
- product definition
- file identification
- part structure
- part properties
- general organizational data
- work/change management
- configuration identification
- configuration effectivity
- assigned effectivity
- foundation representations
- elemental shape
- elemental topological shape

AP 203 Data Contents



Modules/AICS for:

- Advanced BREP
- CSG
- Manifold Surface
- Topologically Bound Surface
- Topologically Bound Wireframe
- Geometrically Bound Surface
- Geometrically Bound Surface

Other Enhancements



- Closing of all outstanding SEDS (hopefully)
- EXPRESS ARM
- Other scope changes as required
 - More document ability?
 - Software CM specializations?
 - Non-manifold shape?
 - Colour/Layer?
 - Annotation of 3D Model?

Proposed Schedule



- Kickoff- Lillehammer
- Working Draft- September 1999
- NWI/CD- Year End 1999